

# INTERNATIONAL SEARCH REPORT

National Application No

. . . /US2004/023759

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C12N5/06 C12N5/08

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	<p>BITMANSOUR A D ET AL: "Clonotypic structure of the human CD4+ memory T cell response to cytomegalovirus"  <i>JOURNAL OF IMMUNOLOGY</i>, THE WILLIAMS AND WILKINS CO. BALTIMORE, US,    vol. 167, no. 3,    1 August 2001 (2001-08-01), pages 1151-1163, XP002297103    ISSN: 0022-1767    cited in the application    * Materials and Methods: Cell preparation and Ag stimulation *    * Materials and Methods: Immunofluorescent staining and flow cytometric analysis and sorting *    figure 4</p> <p>-----</p> <p style="text-align: center;">-/-</p>	1-6, 8-14, 18, 19, 21, 22, 27, 28, 30, 32, 34, 40, 41

Further documents are listed in the continuation of box C

Patent family members are listed in annex.

\* Special categories of cited documents

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*&\* document member of the same patent family

Date of the actual completion of the international search

19 April 2005

Date of mailing of the international search report

27/04/2005

Name and mailing address of the ISA

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**INTERNATIONAL SEARCH REPORT**

International Application No

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**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 03/034820 A (MEDCELL BIOLOGICS, LLC) 1 May 2003 (2003-05-01)  examples 1,5,6,9 claims 48,49,51,53 -----	1-3, 5-12,15, 17,19, 21,22, 28,30, 32,34, 36,37, 40,41,43
X	TRIMBLE L A ET AL: "Clonal expansion of antigen-specific CD8+ cytotoxic T lymphocytes is regulated by late exposure to serum to prevent apoptosis" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 225, no. 1-2, 27 May 1999 (1999-05-27), pages 39-52, XP004166755 ISSN: 0022-1759 * Materials and methods: Cell lines * * Materials and methods: Positive selection of CD8+ cells * * Materials and methods: Flow cytometry * -----	1,3,5-7, 9,13,14, 18,19, 21,22, 27,36, 40,41
A	WO 03/004625 A (THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE S) 16 January 2003 (2003-01-16) -----	
P,X	WO 2004/027428 A (DEUTSCHES RHEUMA-FORSCHUNGS ZENTRUM BERLIN; FRENTSCH, MARCO; ROTHE, MA) 1 April 2004 (2004-04-01) examples 3,6,8 page 17, line 8 - line 11 page 19, line 1 - line 19 page 20, line 18 - line 23 page 21, line 4 - line 25 figure 3 -----	1-24, 36-38, 40-43
A	SUNI M A ET AL: "Detection of antigen-specific T cell cytokine expression in whole blood by flow cytometry" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 212, no. 1, 1998, pages 89-98, XP004143119 ISSN: 0022-1759 -----	
A	WO 03/024989 A (XCYTE THERAPIES, INC; BERENSON, RONALD; LAW, CHE; BONYHADI, MARK; SAUN) 27 March 2003 (2003-03-27) -----	
		-/-

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tional Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
T	<p>BUSCH R ET AL: "Isolation of peripheral blood CD4&lt;+&gt; T cells using RosetteSep(TM) and MACS(TM) for studies of DNA turnover by deuterium labeling" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 286, no. 1-2, March 2004 (2004-03), pages 97-109, XP004503450 ISSN: 0022-1759 the whole document</p> <p>-----</p>	

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International application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  

Although claim 43 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

## Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)			Publication date
WO 03034820	A 01-05-2003	US 2003134341 A1			17-07-2003
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		CN 1556854 A			22-12-2004
		EP 1434856 A2			07-07-2004
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		WO 03024989 A2			27-03-2003
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